PROGRAM

of

Forty - Sixth Annual Meeting

THE MARYLAND STATE HORTICULTURAL SOCIETY

January 5-6, 1944

Hotel Alexander **Hagerstown, Maryland**

There's Nothing Better!

NICOTINE SULFATE

ANOTHER "Stand-out" in the Orchard* Brand family . . . Leaders in **orchard performance:**

"Astringent" Arsenate of Lead—with the "extra wallop."

Standard Arsenate of Lead—Foremost among commercial growers.

Apple Dritomic* Sulfur—**Fortified** . . . especially for apple scab.

Peach Dritomic* Sulfur—The peach growers' "Old Reliable."

Spraycop*—Neutral copper with high residual value.

Filmfast*—Spreader-sticker for maximum spray efficiency.

Stafast*—Controls pre-harvest drop.

General Chemical Company

40 Rector Street, New York 6, N. Y.
12 South 12th Street, Philadelphia, Pa.

Technical Service Office in Principal Cities

* Reg. U. S. Pat. Off.

PROGRAM

Forty-Sixth Annual Meeting

THE MARYLAND STATE HORTICULTURAL SOCIETY

HOTEL ALEXANDER—HAGERSTOWN, MARYLAND

JANUARY 5 AND 6, 1944

GENERAL INFORMATION

All meetings will be held in the Ball Room, Hotel Alexander. The Hotel is located on the Public Square, and unlimited parking space or outdoor or indoor parking or storage are available within 2 blocks of the Hotel.

Representatives of orchard supply firms will have small exhibits, located in the corridor adjoining the meeting room.

Time of discussions and the appearance of speakers is not exact and necessary changes may be made. However, every attempt will be made to conduct the meetings as shown in this Program.

ANNUAL DINNER in Main Dining Room, Hotel Alexander, at 6:30 p. m. Wednesday. The ladies are invited too. Get tickets early.

The Program is designed to consider growers' immediate problems. Full attendance of growers from everywhere is desired and discussion is invited.

Apple Exhibit will be held at Lord Baltimore, Baltimore, January 12 and 13, 1944, in connection with Annual Meeting of Maryland Farm Bureau and Affiliated Farm Organizations.

The Society solicits the membership of fruit growers having large or small acreage, whether located in Maryland or elsewhere. Membership is not limited to growers, however, as any person may join. The Society is educational in character, but represents the growers as an organized group, where legislation, demands, or organized action are involved. Members receive The Maryland Fruit Grower, monthly news-letters and the Proceedings of the Annual Meetings. Summer Field Meetings have been discontinued for the duration. Membership is one dollar a year. Sign up during the meetings or send your fee to the Secretary.

WEDNESDAY MORNING PROGRAM—PAGE 2

WEDNESDAY AFTERNOON AND EVENING PROGRAM—PAGE 8

THURSDAY MORNING PROGRAM—PAGE 12

THURSDAY AFTERNOON PROGRAM—PAGE 16

INDEX OF ADVERTISERS—PAGE 2

PROGRAM

WEDNESDAY MORNING—JANUARY 5

10:00—Movie—War on Wear.

10:30—Where Do We Stand on New Peach Varieties?—A. L. Schrader, Pomologist, University of Maryland, College Park, Md.

11:00—An Additional Year's Results and Experiments in Controlling Fruit-Set By Blossom-Removal Sprays.
A Summary of Harvest-Spray Results to Date.—L. P. Batjer, Senior Horticulturist, U. S. Horticultural Station, Beltsville, Md.

11:40—Activities of National Apple Institute in Relation to Growers' Problems.—John Chandler, Executive Secretary, Washington, D. C.

WEDNESDAY AFTERNOON AND EVENING PROGRAM—PAGE 8

OFFICERS—1943

President—STANLEY M. FULTON, Hancock
1st Vice-President—DWIGHT T. WALKER, Mt. Airy
2nd Vice-President—LLOYD BALDERSTON, Colora
Secretary-Treasurer—A. F. VIERHELLER, College Park
Executive Committee—R. S. Dillon, Jr., Hancock; A. Lee Schrader, College Park; O. R. Higgins, Hurlock; W. C. Main, Hagerstown; D. E. Rinehart, Smithsburg; E. C. McFadden, Hagerstown; S. B Waddell, New Windsor; R. C. Shaw, Stewartstown; G. R. Canby, Silver Spring; J. P. Caspar, Hancock.
Director to Maryland Farm Bureau—J. A. Cohill, Hancock.
Delegates to Maryland Farm Bureau—M. T. Heaps, Cardiff, E. D. McCain, Frederick.
Directors to Appalachian Apple Service—E. D. McCain, Frederick; W. T. Delaplaine, Frederick; G. W. Gardenhour, Smithsburg; S. M. Fulton, Hancock; Lloyd Balderston, Colora.

Are You a Blood Donor?

INDEX OF ADVERTISERS

	Page
General Chemical Company, New York, N. Y.	Inside Front Cover
Dow Chemical Company, Midland, Mich.	3
Marvil Package Company, Laurel, Del.	4
Miller Chemical and Fertilizer Company, Baltimore, Md.	5
California Spray-Chemical Corporation, Elizabeth, N. J.	6
Friend Manufacturing Company, Gasport, N. Y.	7
G. Mose Parkins, Martinsburg, W. Va.	8
F. A. Read, Inc., Albion, N. Y.	9
Jersey Package Company, Bridgeton, N. J.	10
The Hardie Manufacturing Company, Hudson, Mich.	11
Central Chemical Corporation, Hagerstown, Md.	12
Stauffer Chemical Company, New York, N. Y.	13
Rice, Trew & Rice, Biglerville, Penna.	14
Southern States Cooperative, Richmond, Va.	15
Warner Company, Philadelphia, Penna.	16
American Cyanamide Company, New York, N. Y.	17
Koppers Company, Pittsburgh, Penna.	18
Camden Coke Plant, Camden, N. J.	19
Niagara Sprayer and Chemical Company, Middleport, N. Y.	20
Fred C. Strype, New York, N. Y.	Inside Back Cover
B. G. Pratt Company, New York, N. Y.	Outside Back Cover

ARE YOU ALL SET FOR '44?

Planned Spraying and dusting programs needed to answer call for more food

Growers will do their utmost in the drive for more food in 1944. Planned programs for spraying and dusting are pretty much under way throughout the growing areas. It is gratifying to learn that so many of you will rely on Dow Insecticides and Fungicides to help you get the best results. You'll be all set when the gong rings.

The Dow products that are getting the call just now are, of course, those first requirements of the new season—those dependable Dow Dormant Sprays. There's a big demand on for *DN*-Dry Mix (Wettable) and Dowspray Dormant (*DN*-Oil). Many well planned programs are also including "Mike" Sulfur and Dow Dry Lime Sulphur—two favored fungicides that can't be beat for effectiveness. How are you set for the job ahead? Your dealer will be glad to discuss Dow products with you.

Consider, Too, These Specific Purpose Products

***DN*-111 and *DN*-Dust D-4, for summer red mite control; Bordow, to control leaf spot, brown rot, scab; App-L-Set, growth control agent to check preharvest drop of apples and pears.**

DOW

CHEMICALS INDISPENSABLE TO INDUSTRY AND VICTORY

THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

New York • Cleveland • Chicago • St. Louis • Houston
San Francisco • Los Angeles • Seattle

Begin Here. Read Every Advertisement.

Long Years of Experience

have been a contributing factor to us in the manufacture of Quality Fruit and Vegetable Packages

MARVIL PACKAGE COMPANY.

LAUREL, DELAWARE

Remember Our Advertisers.

BE FOREHANDED

PREPARE FOR 1944 SPRAYING

BUY MILLER MATERIALS NOW

MILLER

ORTAZOL—Dinitro Powder
MISCIBLE OIL "C"—Does not freeze
OIL EMULSION "83"
SUMMER OIL "V"
NU-FILM—Sticker & Spreader
DEPOSIT BUILDER—For 2nd cover spray
BORE-TOX—For Peach Borers
ROTENONE V-33—For vegetable insects
LIME SULPHUR—WETTABLE SULPHUR
ARSENATE OF LEAD—COPPER SPRAYS

The popular MILLER line includes a spray or dust for every common insect or fungus disease affecting fruit or vegetable crops.

A staff of highly trained field men is always available to help you with your growing problems.

MILLER products are reasonably priced

BUY NOW

Miller Chemical & Fertilizer Corporation

Main Office—Baltimore, Md.

Better Buy It Now and Have It Later.

GROW CLEAN FRUIT WITH THESE LEADERS

ELGETOL DINITRO SPRAY
KLEENUP DORMANT OILS
KOPPERS FLOTATION PASTE SULPHUR
MICRO-FLOTOX WETTABLE SULPHUR
ORTHEX SPREADER ADHESIVE
ORTHOL-K SUMMER OILS
COPOSIL FUNGICIDES
BLACK LEAF 40
BLACK LEAF 155
FRUITONE HORMONE SPRAY

YOUR SPRAY NEEDS . . .
FROM START TO FINISH

SCIENTIFIC ORTHO PEST CONTROL

CALIFORNIA SPRAY-CHEMICAL CORPORATION

ELIZABETH 2, N. J.

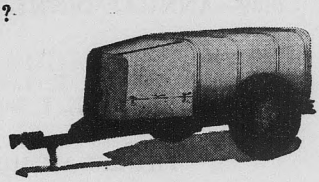
Mention This Program When Writing Advertisers.

Do YOU Know the Answer?

If you do, your Spraying is REAL SATISFACTION!

Check these questions against your own experience:

- Which sprayer pump has only ½ to ⅓ as many moving parts as others?
- Which pump is built without a single plain sleeve bearing (all roller bearings)?
- Which sprayer was the first to have complete lubrication of all working parts, including the plungers?
- Which sprayer has the fewest places to oil and grease?
- Which sprayer is kept pumping at full efficiency always, by an instant adjustment that prevents leaks?
- Which spray pump needs no rubber or leather plunger cups?
- Which pump has cylinders that never wear—that never need relining?

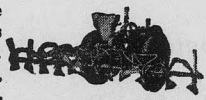


- With which sprayer can you clean the valves quickest?

Thousands of growers—men who have owned several different makes of sprayers—will tell you that there is just one answer to all of these questions: "Friend."

"FRIEND" MFG. CO.
Gasport, N. Y.

Dusters. With the same Reliability as "Friend" Sprayers. For large acreage, the "Friend" Unifeed. Also low-cost utility models.



Sizers and Cleaners for every need—from large commercial equipment to small growers' models. No other sizers handle fruit so gently.

Easiest to Maintain in Working Order--
Fewest Moving Parts
"FRIEND"

Make This Program Your Shopping Guide.

PROGRAM

WEDNESDAY AFTERNOON—JANUARY 5

2:00—Invocation.

Appointment of Committees

2:10—The Changing Picture in Orchard Fertilizers as a Result of New Materials, New Evidence, and a Probable Increased Supply.—F. W. Parker, Head, Division of Soil and Fertilizer Investigations, U. S. Department of Agriculture, Beltsville, Md.

2:50—President's Address—Stanley M. Fulton, Hancock, Md.
Report of Secretary-Treasurer—A. F. Vierheller, College Park, Md.

3:10—The Maryland Horticultural Council.—C. H. Mahoney, Head, Department of Horticulture, University of Maryland, College Park, Md.

3:20—Two Years' Observations and Study on Causes of "Sick" Peach Trees in the Orchard.—I. C. Haut, Professor of Pomology, University of Maryland, College Park, Md.

4:00—Appalachian Apple Service and National Peach Council Plans for Marketing the 1944 Crop.—Carroll R. Miller, Secretary-Manager, Appalachian Apple Service, Inc., Martinsburg, W. Va.

6:30—ANNUAL DINNER.

Music.

Speaker—L. F. Livingston, Manager, Agricultural Extension Division, E. I. DuPont de Nemours & Co.

THURSDAY MORNING PROGRAM—PAGE 12

Buy Some More Bonds.

G. "MOSE" PARKINS

Distributor

Cushions -:- Shredded Paper

Baskets -:- Boxes -:- Liners

MARTINSBURG WEST VIRGINIA

Buy What You Need. Need What You Buy.

We Specialize . . .

In Furnishing the

FRUIT GROWERS

With the Following Goods

BASKET CAPS	DOUBLE FACE BOARD
BASKET LINERS	BOX LINERS
BASKET FRINGES	BOX CUSHIONS
BASKET CUSHIONS	OIL WRAPS
PACKING SETS	SHREDDED PAPER

F. A. READ, Inc.

Winchester, Va. **Albion, N. Y.**

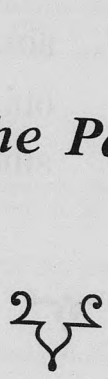
Ask Your Dealer for READ'S Goods

Save This Program for Advertisers' Addresses.

TIME TO PICK!

It may not be time to harvest your 1944 crop but it is time to pick the basket. Select Jersey baskets and the discriminating buyer will select your fruit.

"They See the Package First"



Jersey Package Company

Phone 473 **BRIDGETON, N. J.** **Phone 472**

Three Factories—Bridgeton, Vineland, Millville

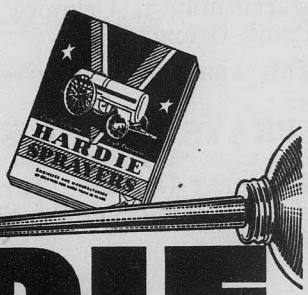
MOST OF IT WILL LAST YEARS YET

The Hardie Sprayers we are building under the new quotas are the same good, dependable, trouble - proof Hardies that you always had.

Most parts of any Hardie Sprayer regardless of year or model are practically indestructible. Those parts which are subjected to the most wear are easily and inexpensively replaced.
All parts and materials needed for service or replacements are readily available, including new pumps in all sizes, hose, plungers and plunger cups, tanks, agitators, guns and booms.
No matter how old the Hardie in most cases it can be put into condition to render new sprayer performance. Ask your Hardie dealer. Write for the new 1944 Hardie catalog showing wartime Hardies now in production. See us at the Hagerstown Meeting, January 5-6.

The Hardie Mfg. Company
Hudson, Mich.

Sold and Serviced by
GEORGE BELL,
Hagerstown, Md.



HARDIE

. . . THE ONLY SPRAYER THAT IS COMPLETELY LUBRICATED

DEPENDABLE SPRAYERS

Buy What You Need. Need What You Buy.

PROGRAM

THURSDAY MORNING—JANUARY 6

9:30—Keeping Ahead of the Mice in the Orchard.—John Hamlet, U. S. Fish and Wild Life Service, Department of Interior, Washington, D. C.

10:10—Fruit Prices versus Fruit Profits.—Henry W. Miller, Jr., Fruit Grower, Paw Paw, W. Va.

10:40—What Have We Learned From the Past Year's Orchard Labor Problems and What Can Be Planned for the Coming Year?—Paul E. Nystrom, Supervisor Emergency Farm Labor, Agricultural Extension Service, University of Maryland, College Park, Md.

11:40—The Supply and Use of Old and New Insecticides.

The 1944 Spray Calendar.—C. Graham, Extension Entomologist, University of Maryland, College Park, Md.

THURSDAY AFTERNOON PROGRAM—PAGE 16

Save Paper and Kitchen Grease.

TO SERVE MARYLAND FRUIT GROWERS BETTER

We have plants located at Hagerstown, Md., Gettysburg, Milton, Butler, Lebanon, Everett and Chambersburg, Pa., Harrisonburg, Crimora and Elkton, Va., Chemical Lime Plant, Oranda, Va.

This enables us to give you prompt and efficient service.

SPRAYS AND DUSTS FOR EVERY PURPOSE

Dowspray Dormant, Tar Oil Emulsions, 83% Oil Emulsion, Elgetol, Lime Sulphur Solution, Roof Paint, D. N. Powder, etc., etc.

FERTILIZER FOR ALL CROPS

CENTRAL CHEMICAL CORPORATION

General Office—Hagerstown, Md.

Save This Program for Advertisers' Addresses.

To protect your crops in 1944, use

STAUFFER'S

Wettable
and
Dusting Sulphurs

Cryolite (natural)
Tartar Emetic

For soil treatment, use

"Triangle" Brand Commercial Flour Sulphur
"Toro" Agricultural Soil Sulphur
Borax

And for weed eradication, use

Carbon Bisulphide

Cooperate with industry by placing your orders early

Stauffer Chemical Company, Inc.

420 LEXINGTON AVENUE NEW YORK 17, NEW YORK

* * * *

RICE, TREW & RICE COMPANY

MANUFACTURERS

of

Paper Supplies

for

FRUITS AND VEGETABLES

Always At Your Service

Main Office: Biglerville, Pennsylvania

* * * *

at the sign of QUALITY!

A cooperative service with a complete line of Fertilizer, Spray Materials, and Orchard Supplies. Savings from cooperative buying are annually returned to patrons in patronage funds.

See Your Nearest Cooperative Service Agency

Southern States Cooperative

RICHMOND, VIRGINIA

PROGRAM

THURSDAY AFTERNOON—JANUARY 6

1:30—Reports of Committees.

2:00—The Codling Moth Problem. New Angles in Present Conditions and Control.—W. S. Hough, Entomologist, Winchester Research Laboratory, Winchester, Va.

2:30—The World Fruit Situation and Post-War Problems.—Fred Motz, International Commodity Specialist, U. S. Department of Agriculture, Washington, D. C.

3:00—Some Post-War Problems of Fruit Growing in this Eastern Region. Discussion led by Stanley M. Fulton, Chairman, Fruits Sub-Committee, Maryland Post-War Agricultural Committee.

Apple Variety Adjustments—
I. C. Haut

By-Products Competition—
C. H. Mahoney

GENERAL DISCUSSION

ADJOURNMENT

Choose and Use WARNER Limes

use

"BELL MINE"
High Calcium Limes
for Spraying and Dusting

use

"CEDAR HOLLOW"
High Magnesium Limes
for Soil Treatment

FOUNDED 1794 Warner SAND-GRAVEL-LIME PRODUCTS

WARNER COMPANY
219 North Broad Street
Philadelphia 7, Pa.

Don't Put It Off. Buy Now.

'Aero' CYANAMID NITROGEN

GRANULAR 'AERO' CYANAMID HAS BEEN CALLED "AGRICULTURE'S MOST USEFUL FORM OF NITROGEN."

High nitrogen content, plus 70% of lime, is a most desirable combination where soil improvement and profitable crops go hand in hand.

Furthermore, its granular form makes application easy as well as economical. Runs freely, distributes evenly. does not cake.

'Aero' Cyanamid, used year after year, improves the soil. Just nitrogen and lime.

AMERICAN CYANAMID COMPANY
FERTILIZER DIVISION
30 ROCKEFELLER PLAZA • NEW YORK 20, N. Y.

KOPPERS FLOTATION SULPHUR

SAFE---EFFECTIVE

Koppers Flotation Sulphur can be depended on to protect tender foliage, permitting it to attain full normal growth. This results in a much larger annual yield of fruit per tree.

Koppers Flotation Sulphur is an effective and dependable fungicide, proved by years of use. Pre-creamed, easily handled, it sets well under poor drying conditions. Tests on Koppers Flotation Sulphur show that 80% of the particles measure less than 4 microns, thus assuring greatest coverage.

Place Your Orders Early

KOPPERS COMPANY

Tar and Chemical Division

PITTSBURGH, PA.

FERROX FLOTATION SULPHUR

Of twenty-five leading brands of sulphur tested, Camden Ferrox Flotation was found to have the finest particle size (Va. Tech. Bull: 82).

Fineness is an important factor affecting control.

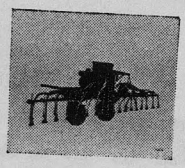
No wetting or dispersing agents added.

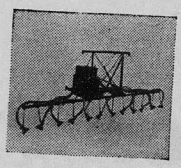
CAMDEN COKE PLANT

Public Service Electric & Gas Co.

Camden, N. J.

Better Buy It Now and Have It Later.





"THE FUTURE OF AMERICA will spring from the soil"

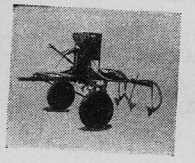
To you who produce America's vast essential food crops has been entrusted the guardianship of the future of our country. Huge quantities of food are demanded—in a volume we have never known before—for our workers, our military establishments, our entire civilian population and for our international neighbors.

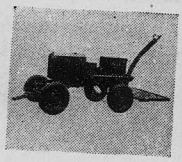
In accepting this responsibility your objective is to make each acre produce a maximum crop. This means elimination of damage from insects and diseases—always threatening to extract their toll.

The Niagara Organization—specialists in these problems—is prepared to assist your every effort in solving insect and disease problems to achieve maximum production at minimum cost. Niagara is ready to serve you with dust or spray as well as the mechanical apparatus for applying it.

WHEN YOU BUY Niagara YOU BUY PROTECTION

NIAGARA SPRAYER and CHEMICAL CO., Inc.
MIDDLEPORT, NEW YORK
San Francisco, Calif. Jacksonville, Fla.
Canadian Associate: Niagara Brand Spray Co., Ltd., Burlington, Ontario





Make This Program Your Shopping Guide.

TO THE

APPLE GROWERS OF MARYLAND

AND THE MEMBERS OF

THE MARYLAND
STATE HORICULTURAL SOCIETY

we extend our best wishes

* * * *

It has been a pleasure to serve you our

SUNSET OILED APPLE WRAPS

and

SUNSET SHREDDED OILED PAPER

* * * *

Fred C. Strype, Inc.

NEW YORK, N. Y.

CODLING MOTH CONTROL

BEGIN WITH A TOXIC DORMANT SPRAY

What has a dormant spray to do with codling moth control?

A number of years ago one of our best known experiment stations put on an experiment with codling moth in their winter cocoons, treated with several sprays. The check showed 10 to 12% dead. Lime sulfur 12% dead. A self-emulsifying oil 9.9% dead. Oil emulsion 3% dead. Scalecide (1 to 15) 51% dead.

Why did more codling moth emerge where oil emulsion was used than the checks? Unless the oil is toxic to the insect it seems that the oiled cocoon increases the emergence.

There is much evidence to this trend. But the answer is to begin your codling moth control with a toxic oil spray—Scalecide. Follow through with the most effective cover sprays.

ADD POWER TO YOUR COVER SPRAYS

Fruit growers in the most heavily infested codling moth areas have demonstrated time and again that the addition of D-X to the regular codling moth arsenical schedule reduces stings and entries to a lower minimum than was ever believed possible.

Add D-X Nicotine, 1½ pints per 100 gals., to your regular spray at the peak of the moth emergence. Generally the first or second cover spray. Repeat as the larvae hatch about ten days later. Growers are getting mximum control by adding D-X Nicotine to two sprays for the first brood and two for the second.

Write for Pratt's Codling Moth Spray Schedule.

B. G. PRATT COMPANY

Dept. "F"

50 Church Street New York 7, N. Y.